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FILE 'BIOSIS, SCISEARCH, MEDLINE' ENTERED AT 12:49:36 ON 22 AUG 2003
            59 S KPV
L1
             6 S L1 AND SKIN
L2
L3
             1 S L1 AND ANTIFUNGAL
             0 S L1 AND DERMAT?
L4
L5
             0 S L1 AND EPIDERMIS
L6
             0 S L1 AND PRURIT?
L7
             0 S L1 AND PSORIATIC
L8
             6 S L1 AND SKIN
            12 S L1 AND INFLAMMATION
L9
           6 DUP REMO L9 (6 DUPLICATES REMOVED)
L10
L11
            2 S L1 AND TOPICAL
L12
            0 S L1 AND OINTMENT
L13
            0 S L1 AND LOTION
L14
            9 S L1 AND SURFACE
L15
            6 DUP REMO L14 (3 DUPLICATES REMOVED)
            0 S L1 AND ARM
L16
L17
            0 S L1 AND LEG
L18
             0 S L1 AND ABDOMENT
             0 S L1 AND ABDOMEN
L19
          1822 S ((LIPTON J?)OR(LIPTON, J?))/AU
L20
L21
           671 S ((CATANIA A?)OR(CATANIA, A?))/AU
L22
           188 S L20 AND L21
            83 DUP REMO L22 (105 DUPLICATES REMOVED)
L23
             4 S L23 AND KPV
L24
             4 S KPV AND GLUCOCORTICOID
L25
             2 DUP REMO L25 (2 DUPLICATES REMOVED)
L26
     FILE 'USPATFULL' ENTERED AT 13:08:57 ON 22 AUG 2003
            55 S KPV
L27
             7 S L27 AND TOPICAL
L28
L29
            12 S L27 AND SKIN
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6 S L29 AND L28

L30



DATE: Friday, August 22, 2003

Set Name side by side	<u>Query</u>	Hit Count	Set Name result set
DB=USPT,PGPB,JPA	AB,EPAB,DWPI; PLUR=YES; OP=OR)	
L7	514/18 and L3	1	L7
L6	514/15 and L5	1	L6
L5	514/16 and L4	1	L5 ·
· L4	514/14 and L3	1	L4
L3	424/70.21	442	L3
L2	((1/)!.IPC.)	7	L2
L1	kpv.clm.	6	L1

END OF SEARCH HISTORY

ANSWER 1 OF 2 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN DUPLICATE 1

AN 2002:254854 SCISEARCH

GA The Genuine Article (R) Number: 5312C

- TI Changes in **glucocorticoid** and mineralocorticoid receptors of liver and kidney cytosols after pathologic stress and its regulation in rats
- AU Liu D H (Reprint); Su Y P; Zhang W; Lu S F; Ran X Z; Gao J S; Cheng T M
- CS Third Mil Med Univ, Inst Combined Injury, Chongqing, Peoples R China (Reprint)

CYA Peoples R China

SO CRITICAL CARE MEDICINE, (MAR 2002) Vol. 30, No. 3, pp. 623-627. Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA. ISSN: 0090-3493.

DT Article; Journal

LA English

REC Reference Count: 34

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB Objective: As effectors, **glucocorticoid** and mineralocorticoid receptors play an important role in pathologic stress. This study was designed to observe the changes in **glucocorticoid** receptor of liver cytosols and mineralocorticoid receptor of kidney cytosols after pathologic stress in rats.

Design: Controlled laboratory study.

Setting: Medical university.

Subjects. Male Wistar rats (weight range, 180-200 g).

Interventions. Rats received a low-degree or heavy-degree immersion scald that covered 10% or 35% total body surface area and were randomly divided to receive either tumor necrosis factor-alpha, interieukin-1beta polyclonal neutralizing antibody, alpha-melanocyte-stimulating hormone, KPV peptide (Ac-D-Lys-L-Pro-D-Val), or saline (control). The binding capacity and the apparent dissociation constant of the steroid-binding sites of normal, low-degree, and heavy-degree scalded rats were measured by radio-ligand-binding assay, with [H-3]dexamethasone and aldosterone as the ligand, respectively.

Measurements and Main Results: The binding capacity of glucocorticoid receptor in hepatic cytosols in rats 12 hrs after heavy-degree scald (208.45 + - 30.78 fmol/mg of protein) was lower than that of the control group (306.71 \pm 27.96 fmol/mg of protein; p < .01). The binding capacity of glucocorticoid receptor in hepatic cytosols in rats 12 hrs after low-degree scald (296.64 +/- 16.06 fmol/mg of protein) was not significantly different compared with the control group (p > .05). There were two types of mineralocorticoid receptor in kidney cytosols in rats, and their binding capacity and apparent dissociation constant were not identical. The binding capacity of mineralocorticoid receptor in rats 12 hrs after heavy-degree scald (binding capacity 1, 22.40 +/- 5.40 fmol/mg of protein; binding capacity 2, 196.30 + - 32.50 fmol/mg of protein) was lower than that of the control group (binding capacity 1, 41.60 +/- 7.20 fmol/mg of protein; binding capacity 2, 317.60 +/- 70.00 fmol/mg of protein; p < .01). The binding capacity of mineralocorticoid receptor in kidney cytosols in rats 12 hrs after low-degree scald (binding capacity 1, 41.40 +/- 5.00 fmol/mg of protein; binding capacity 2, 314.80 +/- 45,70 fmol/mg of protein) was not significantly different compared with the control group (p > .05). The injections of anti-rat tumor necrosis factor-alpha, interleukin-lbeta polyclonal neutralizing antibody, alpha-melanocyte-stimulating hormone, and KPV peptide (Ac-D-Lys-L-Pro-D-Val) might prevent a reduction in the binding capacity of glucocorticoid receptor in hepatic cytosols and mineralocorticoid receptor in kidney cytosols in rats with heavy-degree scald in vivo.

Conclusions. These studies suggest that the **glucocorticoid** receptor of hepatic cytosols and the mineralocorticoid receptor of renal

cytosols decreased in rats with heavy-degree immersion scald and that the injections of anti-rat tumor necrosis factor-alpha, interieukin-lbeta polyclonal neutralizing antibody, alpha-melanocyte-stimulating hormone, and KPV peptide might increase the level of glucocorticoid receptor and mineralocorticoid receptor in vivo.